

ABSTRACT

Method, system, and circuitry for successfully completing soft handoff in an Internet Protocol (IP) based autonomous base station wireless Code Division Multiple Access network, wherein processing is done at the serving base station so that target base stations need only set up the channel for transmitting the copied data needed for soft handoff. Concomitant circuitry comprises packet data multiplexers/assemblers and demultiplexers/de-assemblers for performing cross-layer switching. Data packets are sent by a serving base station to a mobile unit while the mobile is in a soft handoff region. The serving base station also sends copies of the data packets to target base stations, the target base stations in turn relay these data packets to the mobile. The mobile synchronizes the copies of the data packets received and combines the packets to recover the data.